

Patent Abstracts of Japan

PUBLICATION NUMBER : 2001095182
PUBLICATION DATE : 06-04-01

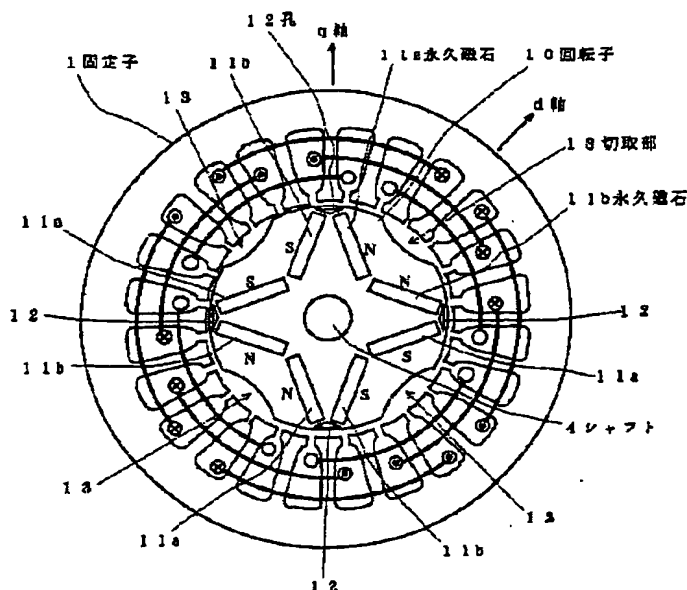
APPLICATION DATE : 20-09-99
APPLICATION NUMBER : 11265112

APPLICANT : FUJITSU GENERAL LTD;

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INT.CL. : H02K 1/27 H02K 1/22 H02K 19/10
H02K 21/14

TITLE : PERMANENT MAGNET ELECTRIC
MOTOR



ABSTRACT : PROBLEM TO BE SOLVED: To cut cost by using magnet torque and reluctance torque together and by raising the reluctance torque in a permanent magnet electric motor.

SOLUTION: On a rotor 10 inside a stator 1 that generates revolving magnetic field of a permanent magnet electric motor, permanent magnets 11a, 11b of a rectangular shape in cross section are arranged as a pair in an inverted V- shape of an obtuse angle, the point of which is directed to a shaft 4, and embedded at an equal interval in the circumferential direction by the number of poles of the permanent magnet electric motor. The polarity of the d-axis side of each pair of the permanent magnets 11a, 11b is made the same and the neighboring pairs of permanent magnets 11a, 11b are magnetized to the different polarity. Flux barrier holes 12 that are common to the end part of the outside circumference sides of the core corresponding to the permanent magnet 11a, 11b are formed around q-axis, and the outside circumference of the core around the d-axis is cut out in an inverted arcuate shape to form cutout parts 13 of a grooved shape.

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